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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/797,640	03/10/2004	D. Ryan Breese	88-2071A	4212	
•	7590 02/07/200 CHEMICAL COMPAN	•	EXAM	INER	
3801 WEST CHESTER PIKE			WOLLSCHLAGER, JEFFREY MICHAEL		
NEW IOWN 5	NEWTOWN SQUARE, PA 19073  ART UNIT  ART UNIT		PAPER NUMBER		
			1732		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	02/07/2007	PAP	ER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
		10/797,640	BREESE, D. RYAN				
Office Action Summary		Examiner	Art Unit				
		Jeff Wollschlager	1732				
	The MAILING DATE of this communication a	ppears on the cover sheet w	ith the correspondence address				
Period fo	• •						
WHIC - Exte after - If NC - Failt Any	CORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to received by the Office later than three months after the mail the patent term adjustment. See 37 CFR 1.704(b)	DATE OF THIS COMMUNION (1.136(a). In no event, however, may a low will apply and will expire SIX (6) MONUTE, cause the application to become Af	CATION. reply be timely filed  NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).				
Status							
1)[🖂	Responsive to communication(s) filed on 28	November 2006					
•		nis action is non-final.					
′=	Since this application is in condition for allow		ters, prosecution as to the merits is	<b>;</b>			
,—	closed in accordance with the practice under	·	•				
Disposit	ion of Claims						
4) 又	Claim(s) 1-4 and 6-15 is/are pending in the a	application.					
,	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.	•					
6)🖂	⊠ Claim(s) <u>1-4 and 6-15</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[	Claim(s) are subject to restriction and	/or election requirement.					
Applicat	ion Papers						
9)	The specification is objected to by the Exami	ner.					
10)	The drawing(s) filed on is/are: a) ad	ccepted or b) objected to	by the Examiner.				
	Applicant may not request that any objection to the	ne drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d	i).			
11)	The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.				
Priority	under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreig All b) Some * c) None of:		§ 119(a)-(d) or (f).				
	1. Certified copies of the priority docume						
•	2. Certified copies of the priority docume		. ,				
	3. Copies of the certified copies of the pr	·	received in this National Stage				
* (	application from the International Bure See the attached detailed Office action for a li		received				
		st of the certified copies not	received.				
Attachmen		., □	O(DTO 440)				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date :				
3) 🔲 Info	mation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of I	nformal Patent Application				
Pap	er No(s)/Mail Date	6)	<del></del> ·				

#### **DETAILED ACTION**

#### Response to Amendment

Applicant's amendment to the claims filed November 28, 2006 has been entered.

Claim 1 is currently amended. Claim 5 is canceled. Claim 15 is new. Claims 1-4 and
6-15 are pending and under examination.

#### Claim Objections

Claim 14 is objected to because of the following informalities: It depends from claim 5, which has been canceled. For the purposes of examination, claims 13 and 14 are understood to have the same scope. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6 and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Farley et al. (WO 01/98409; published December 27, 2001).

Regarding claims 1 and 13-15, Farley et al. teach a method of uniaxially orienting a multilayer film (page 31, lines 7-22; page 47, Example 2 and Table 2) comprising at least one layer of LLDPE/VLDPE and one layer of HDPE (page 31, lines 7-page 33, line 9) wherein based upon the instant disclosure it is the examiner's position that the drawdown ratio applied by Farley et al. (page 34, line 29-page 35, line 8) is effective to cause

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the film to delaminate and to give the film a dart drop strength that increases with increasing draw-down ratio.

More specifically, in paragraph [0027] of the instant disclosure, published as U.S. Patent Application Publication 2005/0200046, the disclosed preferred draw down ratio is greater than 6:1 and the most preferred draw down ratio is disclosed as being greater than 10:1. It is noted in the same paragraph that preferably, the multilayer film starts to delaminate and form a multi-wall film. Additionally, Table 1 suggests that the dart drop strength begins to increase when the draw down ratio is between 5:1 and 6:1.

Turning to Farley et al., the disclosed draw down ratio is typically about 21:1 (page 34, line 29 – page 35, line 8). This draw down ratio is within the disclosed range defined as most preferable by the instant disclosure. As such, it is the examiner's position that based upon the instant disclosure, Farley et al. necessarily achieve the same claimed effects and physical properties. Said differently, Farley et al. employ the same claimed materials with the same claimed process steps and conditions and as such, Farley et al. achieve the same claimed results.

As to claims 2-4, Farley et al. disclose the claimed densities (page 2, line 6 – page 3, line 24; page 30, line 9 – page 31, line 7).

As to claim 6, Farley et al. disclose a draw down ratio within the most preferred range. As such, it is the examiner's position that the limitation of the claim is met as discussed in the rejection of claims 1 and 15 above.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Farley et al. (WO 01/98409; published December 27, 2001).

As to claims 7-12, Farley et al. employ the claimed polyethylenes and disclose a presumed molecular number of 15,000 and further disclose a broad range of applicable melt indexes suitable for employment (page 17, lines 1-20). Farley et al. do not expressly disclose the broad ranges of applicable molecular weights. However, as previously presented, polyethylenes with the properties as claimed are readily available and routinely employed in film grade applications and would have been utilized by the ordinarily skilled artisan at the time of the claimed invention for the purpose of being able to produce a film without necessarily needing to produce the raw material polymer, as is routinely practiced in the art. Further, the examiner notes that molecular weight and melt index are highly correlated properties.

## Response to Arguments

Applicant's arguments filed November 28, 2006 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

All claims are rejected.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

<u>Tate et al. (US 2003/0040584)</u> disclose a polyethylene film produced with an increased draw ratio.

Kimura et al. (U.S. 6,127,293) disclose a uniaxially stretched laminate comprising the claimed materials and further disclose broad ranges of molecular weight distributions suitable for their invention.

<u>U.S. Patents 6,147,167; 5,962,598; and 6,878,454</u> disclose polyethylene films employing a variety of different molecular weight and molecular number containing polyethylenes.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jeff Wollschlager whose telephone number is 571-272-

8937. The examiner can normally be reached on Monday - Thursday 7:00 - 4:45.

alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Christina Johnson can be reached on 571-272-1176. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JW

Jeff Wollschlager Examiner

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February 1, 2007

CHRISTINA JOHNSON SUPERVISORY PATENT EXAMINER

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